Always bear in mind that energy efficiency should never come before road safety.

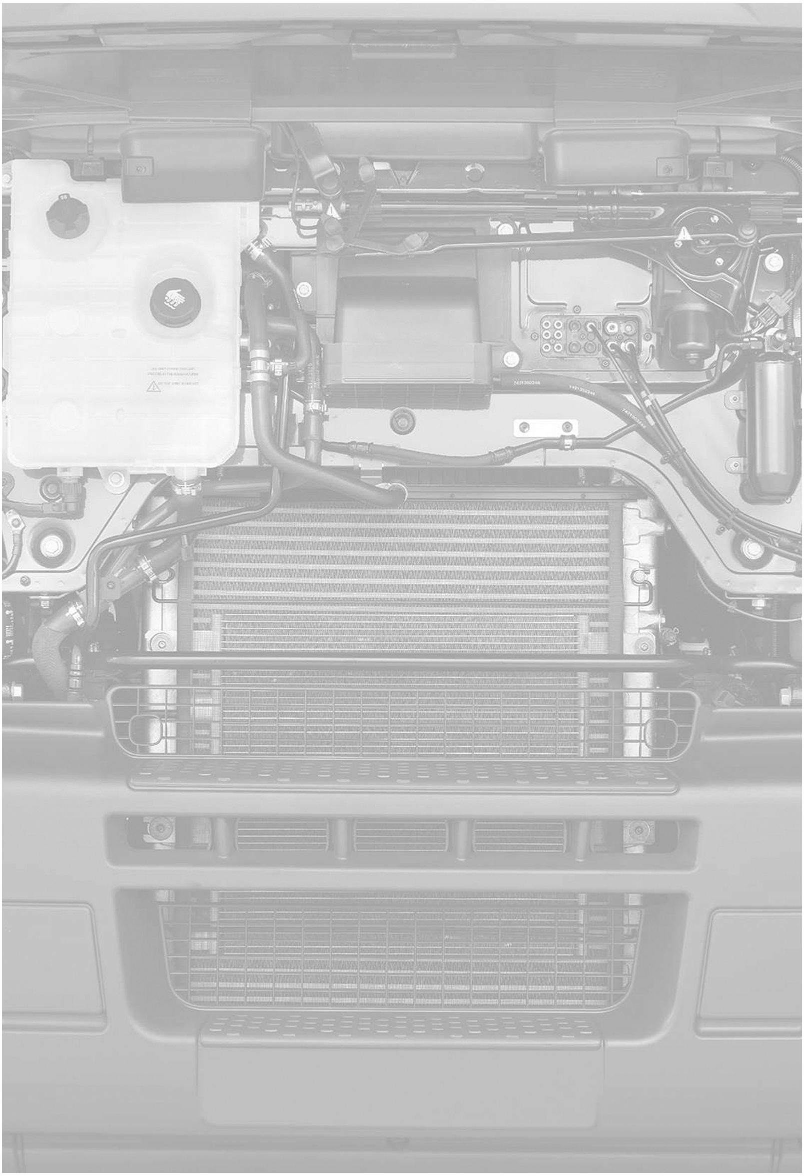
Some tips to reduce fuel consumption and wear and tear on your vehicle:

- Prepare your journey in advance and check the pressure and condition of your tyres. Never forget that poor tyre pressure or high tyre wear leads to extra fuel consumption, poorer handling, increased tyre wear and the risk of bursting or tearing.
- Make sure the vehicle is in good condition. A poorly maintained vehicle can lead to a significant increase in fuel consumption.
- Adopt a flexible driving style. Start smoothly and shift up immediately to avoid over-revving, which leads to higher fuel consumption. Anticipate the need to slow down: use the engine brake rather than the brake pedal. A need to brake indicates that the speed the vehicle had been travelling at excessive speed. This naturally means you have used fuel to reach this speed unnecessarily. Brakes generate heat, and therefore energy. The energy source for your vehicle is fuel. The act of braking leads to fuel consumption.
- Keep your speed constant to avoid using the brakes and wasting fuel unnecessarily. Reduce your speed further. Reducing speed by 10 km/h on the motorway adds a matter of minutes to your journey, but saves litres of fuel.
- In urban environments, GPS data has proven that aggressive driving (strong acceleration and braking, running amber and even red lights, etc.) does not save time. Driver stress, wear and tear on the vehicle, danger to other road users and fuel consumption, however, all increase considerably.
- Switch off the engine if you are going to stop for lengthy periods. Stopping and restarting a vehicle uses less fuel than idling for more than 20 seconds.
- Think before using vehicle accessories. Without energy, there is no source of electricity. The only energy on board a vehicle is fuel. So the more accessories you use (air conditioning, radio, etc), the more energy you will use. Some of these accessories, such as lights, are a safety requirement of the Highway Code. But it is possible to reduce the use of air conditioning without causing any discomfort.

To obtain the best performance using your gearbox, and in particular reduced fuel consumption, adhere to the following rules for driving:

- always select the gear ratio range that allows you to use the engine at its most efficient speed. It is within this range that the maximum torque is found, offering the lowest fuel consumption,
- when selecting manual gears, choose the gear depending on the topography of your route,
- remember that **any gear shift will result in increased fuel consumption.**

Anticipate slowing down as much as possible and avoid sudden gear changes on the vehicle.

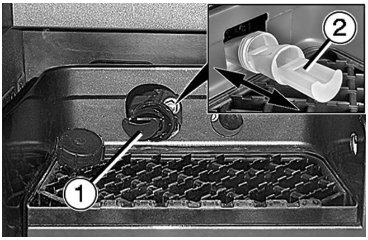


Daily checks

Headlight washer reservoir

Check the level in reservoir (1) regularly. Top up if necessary. To avoid lime scale formation and the blockage of the pipes, it you are recommended to add screen wash additive (RENAULT TRUCKS). This product also works as an anti-freeze agent. It can be maintained throughout the year.

To top up the level, fold back filler duct (2).



Headlight washer capacity

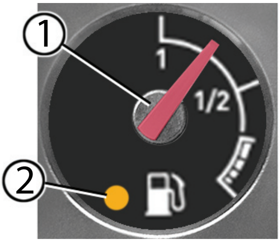
9 Litres.

Traction battery state of charge indicator

State of charge indicator (1) shows you the quantity of energy stored in the traction batteries.

When the stored energy represents 20% (this value can differ according to the vehicle variant) of the traction battery capacity:

- an audible warning sounds and warning (2) located next to the gauge lights up steadily.
- the "Information" indicator lights up and an associated message is displayed on the multifunction information display informing you that the traction batteries now require recharging.



Charge the traction batteries as soon as possible.

When only 10% (this value can differ according to the vehicle variant) of the traction battery capacity remains:

- a loud audible warning sounds and warning (2) located next to the gauge flashes.
- the "Service" indicator lights up and an associated message is displayed on the multifunction information display informing you that the traction battery charge level is critical.

Charge the traction batteries immediately.

The threshold at which the warning light (2) comes on can be changed as required. Contact a RENAULT TRUCKS service point.

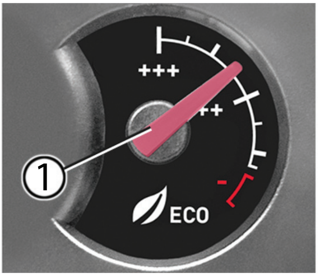
If you have not had the opportunity to charge your front traction batteries, when the charge threshold reaches 5% (this value may differ depending on the vehicle model) of the traction battery capacity:

- a loud alarm sounds and the indicator light (2) next to the gauge flashes.
- the "Service" indicator lights up and a message is displayed on the multifunction information display informing you that the traction battery charge level is critical.
- the vehicle switches to downgraded mode.

If this happens, you run the risk of irreparably damaging your traction batteries.

Contact your nearest Renault Trucks service centre.

Range indicator



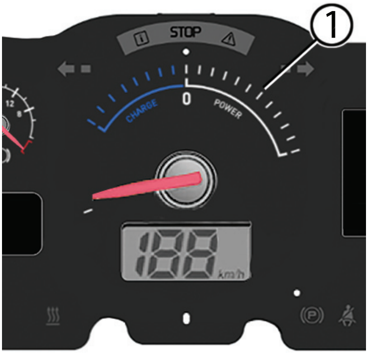
Range indicator (1) is used for assessing your eco-driver performance.

It comprises 3 zones:

- the "**+++**" zone: perfect eco driving
- the "**++**" zone: correct eco driving
- the "**-**" zone: eco driving requires improvement through the anticipation of braking

When the needle is in the "**+++**" zone, this means that during your journey you have recovered the maximum amount of energy for the traction batteries and that you have improved the vehicle's range.

Consumption indicator



consumption indicator (1) provides you with real time information on the vehicle's energy recovery or consumption.

It comprises 3 zones:

- Blue zone: energy recovery.
  When driving, if you lift your foot off the accelerator pedal or you depress the brake pedal, during deceleration the motor generates electrical current which is used for braking the vehicle and recharging the traction battery.

The energy consumption indicator (1) provides you with real time information on the vehicle's energy recovery or consumption.

It comprises 2 zones:

- Blue zone: energy recovery.
  When driving, if you lift your foot off the accelerator pedal or press the brake pedal, the motor generates electrical current during deceleration which is used for braking the vehicle and recharging the traction battery.

- White zone: energy consumption.

The drive system consumes traction battery energy. The further to the right the needle points, the greater the energy consumption. Avoid sudden or prolonged acceleration (especially on steep climbs), as this will save energy and improve the vehicle's range.

- White zone: energy consumption.

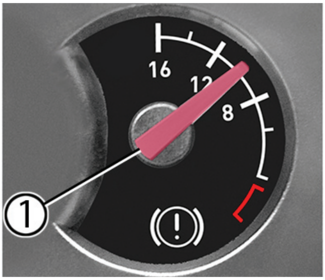
The drive system consumes traction battery energy.

- Red zone: high energy consumption.

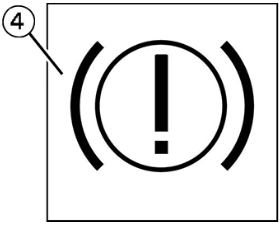
Indicates significant energy consumption, avoid using the red zone, you will save energy and extend the vehicle's range.

Air pressure indicator in braking circuit

Indicator (1) provides information about the air pressure in the braking circuit.



When driving, if air pressure warning pictogram (4) appears on the multifunction information display and the STOP warning light illuminates, you must stop the vehicle and contact the nearest RENAULT TRUCKS garage.



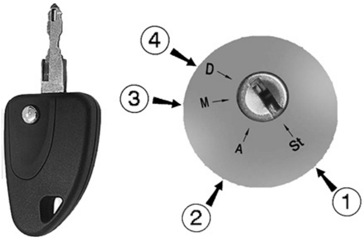
After a prolonged stop, it is possible for the air pressure to drop below a limit not allowing the vehicle to set off, start the vehicle to pressurize the air circuit so that warning pictogram (4) is extinguished.

Immobilizer

Starter ignition switch with electronic immobiliser.

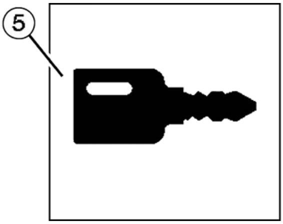
The vehicle is delivered with coded ignition keys paired up to the electronic anti-theft device.

With the master switch engaged, insert the ignition key and turn it to the "ignition" position (3).



Pictogram (5) lights up for a few seconds then goes out.

The system has recognised the key code and authorises engine starting (key in the "start" position (4)).



PIN code start-up

If there is a transponder malfunction, it is possible to start the vehicle.

Switch on the ignition, with the ignition key in position (3).

The message **"Starting impossible"** appears on the multifunction information display.

In the **"Diagnostic"** menu on the multifunction information display, select the **"Transponder"** submenu and enter the 6-digit code issued by **Techline**.

Refer to **Multifunction information display(s)** section.

Confirm.

The following messages can appear:

- "Code correct": the vehicle can be started.
- "Code incorrect": switch off the ignition and start again.
- "Anti-scanning": you have made three consecutive code errors. The system is now locked for 15 minutes. Leave the ignition on and try again after 15 minutes.

Once the correct code has been entered, switch off the ignition, switch it back on and start the vehicle.

Warning condition

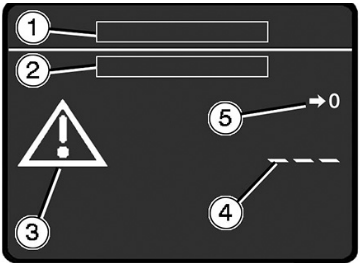
(1) Maintenance menu

(2) Component concerned

(3) Warning tell-tale indicating that the term has been reached or exceeded.

(4) Time remaining in km, hours or date on which the maintenance should be performed.

(5) Option of resetting the time remaining to zero from the multifunction information display (refer to **Multifunction information display(s)** section).



Maintenance fault on a component

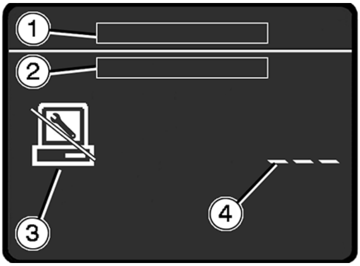
(1) Maintenance menu

(2) Component concerned

(3) Pictogram indicating that the maintenance cannot be accessed.

(4) Time remaining in km, hours or date not determined.

Contact a RENAULT TRUCKS garage.



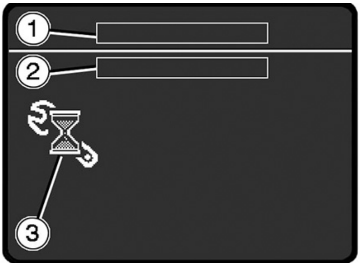
Maintenance not initialized

(1) Maintenance menu

(2) Component concerned

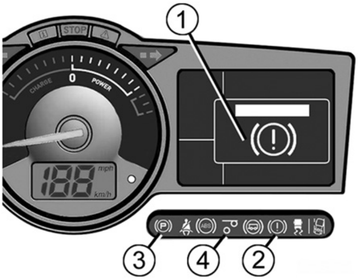
(3) Pictogram indicating that the maintenance has not been initialized.

To initialize the maintenance, visit a RENAULT TRUCKS garage.

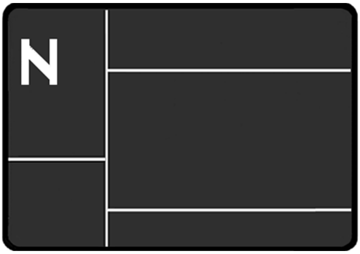


Do not set off until:

- The brake air pressure warning pictogram (1) disappears, the brake air pressure warning pictogram (2) goes out and the braking functions are assured,
- By setting the parking brake to the road position, warning pictogram (3) goes out.

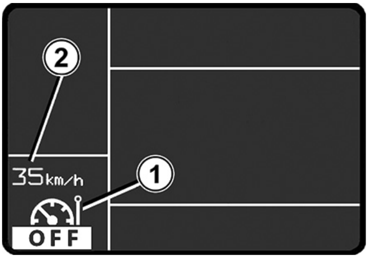


Check that there is no fault warning pictogram displayed on the multifunction information display. The "N" symbol indicates that the gearbox is in the neutral position.



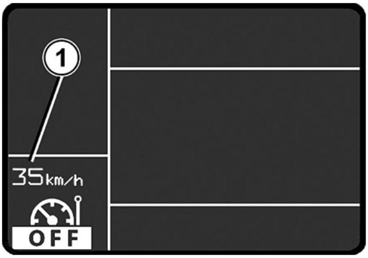
Speed limiter function standby

The function is suspended, the word "OFF" will appear on indicator (1) and the saved setpoint speed (2) will remain displayed if you press the "O" button on the steering wheel.



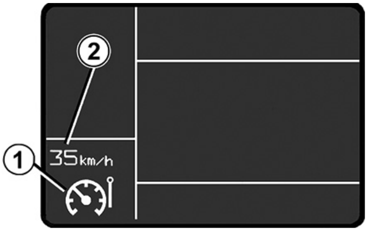
Recalling the limitation setpoint speed

If a set speed (1) is stored in memory on the speed information display, it is possible to recall it.



Press on the **"RES"** button on the steering wheel.

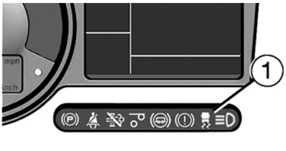
The word "OFF" on the indicator (1) will disappear and the setpoint speed (2) will automatically resume.



"DTC" system: dynamic traction control

This system ensures better stability and traction of the vehicle, by preventing the drive wheels from skidding on surfaces with low adhesion on hard acceleration or when downshifting.

During operation of the DTC system, pictogram (1) flashes.



Emergency brake assist

By measuring the speed at which the brake pedal is depressed, the system serves to detect an emergency braking situation.

In this case, the braking pressures are reduced to obtain more efficient braking.

This function ensures maximum power is available in the event of emergency braking.

Under severe deceleration, the stop lights flash to warn following vehicles.

The stop lights cease to flash as soon as deceleration returns to normal.

"ESC" system

This is a stabilisation system that reduces the risks of skidding and rollover.

"ESC": electronic stability control

If the system detects a risk of skidding (understeer or oversteer), acceleration is reduced and the brakes are automatically applied to the wheels, keeping the vehicle on its path.

Active retarders are automatically deactivated in an ESC phase.

Indicator pictogram (1) flashes during the ESC phase.

"ESC": anti-rollover

If the system detects a risk of rolling over, acceleration is reduced. If this reduction is insufficient, the system automatically brakes the vehicle to reduce its speed.

Emergency brake

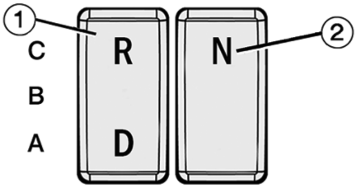
In the event of a service brake fault on one axle, the other axle provides emergency braking efficiency.

Automatic gearbox

The automatic gearbox is equipped with two forwards gears and one reverse gear. The gearbox is controlled by means of switched on the dashboard.

Gear selector

The gear selector comprises switches (1) and (2).



D (Drive) mode: the gearbox engages the forwards gear ratio with an automatic gear shift.

R (Reverse) ode: the gearbox engages reverse gear.

N (Neutral) mode: the gearbox shifts to Neutral, no gear is engaged.

Starting the vehicle

Before starting, ensure that the charge cable is disconnected.

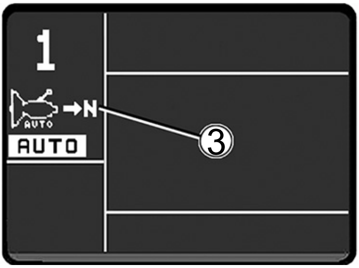
- Switch on the ignition, the drive system is activated.
- depress the brake pedal and release the parking brake,
- set switch (1) to "**D**" mode position "A",
- wait for 3 seconds, then release the brake pedal and depress the accelerator pedal. The vehicle starts to move forwards.

Reverse gear

- Depress the brake pedal and release the parking brake,
- set switch (1) to "**R**" mode position "C",
- wait for 3 seconds, then release the brake pedal and depress the accelerator pedal. The vehicle starts to move backwards.

Stop

- Set switch (2) to "**N**" mode position "C",
- apply the parking brake before getting out of the vehicle.



When you open the door to get out of the vehicle while the switch is in the "**D**" mode position or while the parking brake is not applied, a warning signal sounds and an indicator (3) is displayed prompting you to set the switch back to the "**N**" mode position.

Changes on difficult terrain

Speed changes on difficult terrain should be slow, to allow for proper analysis of upcoming topography. Cab comfort must not make you forget that these are 12- or 14-tonne heavyweights moving on very difficult terrain.

"ASR" Anti-slip regulation system

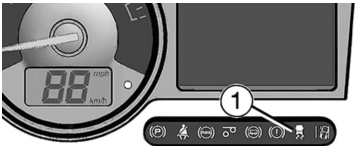
When you move away or under acceleration, this system prevents the wheels from slipping, whatever the condition of the road surface.

This function is activated:

- if a wheel slips, this wheel is braked to bring its speed into line with that of the opposite wheel;
- if two wheels slip, engine speed is limited then the slipping wheel is braked to bring its speed into line with that of the wheel opposite.

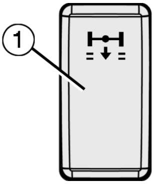
On the road

During operation of the ASR system, indicator pictogram (1) flashes.

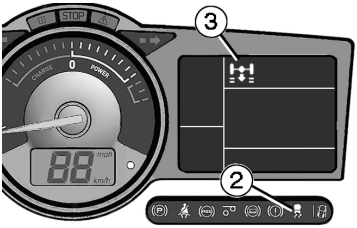


"ASR" off-road mode

Press switch (1); pictogram (2) lights up and pictogram (3) appears on the multifunction information display.



In this mode, ASR allows more wheel slip of the drive wheels, which can improve traction in certain conditions (loose ground, mud etc.). It is not recommended to activate it on the road.



Air suspension

Electronic air suspension

This is pneumatic suspension that is pilot-controlled by an electronic system. In addition to the benefits of conventional air suspension, it has the following advantages:

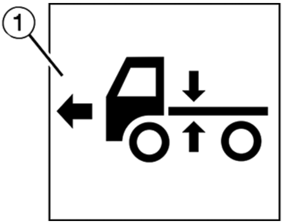
- Optimisation of loading and unloading bay services and last level stored in the memory (even after the current is switched off);
- Automatic level correction parallel to the vehicle axis (even in the event of uneven load distribution);
- functions controlled by a remote control unit;
- Reduced number of air hoses;
- Level correction is quick with low air consumption;
- Built-in safety systems (alarm, defect mode procedures);
- Programming according to the vehicle and to different legislation;
- At speeds above 10 km/h, the chassis returns to normal level.

Operations

- Automatic mode
  The system always adjusts the suspension to the normal level defined by programming.
- Manual mode
  By programming, operation in manual mode is only possible below 10 km/h.
  Manual mode allows the chassis height to be positioned to the level required.
  Automatic mode is resumed via the (normal level) button on the remote control unit or when the speed is above 10 km/h.

Information tell-tale (1)

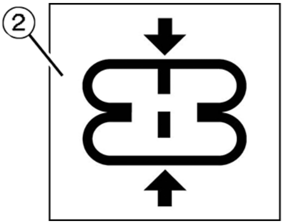
- This is displayed as soon as the vehicle level is other than normal.



On the road

pictogram (1) and the message "NOT IN DRIVE POSITION" appear on the multifunction information display warning of a suspension fault.

Warning tell-tale (2)



- It is displayed with the message **"SWITCH OFF IGNITION"** and the **"SERVICE"** indicator as soon as a fault is identified. The ECU safety function automatically neutralises the control system partially or completely.

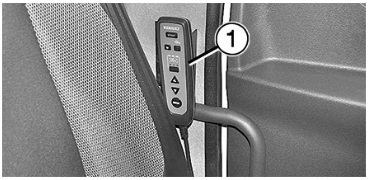
When stationary

Displaying pictogram (2) indicates a suspension fault. Carry out a test (refer to the **Test operation** section).

Restarting

When starting the vehicle, the suspension height is only taken into account when the parking brake is released.

Remote control unit



There is a corresponding ECU type for each suspension equipment.

Location of remote control (1) inside the cab.

Vehicle with integral suspension

The remote control can be used to raise or lower the front and/or rear suspension and return the vehicle to the road position.

The remote control is operational if:

- the ignition is on;
- air pressure is greater than 8 bar;
- speed is less than 10 km/h.

Set the new height using controls (6) and (7). The maximum and minimum ride height adjustment values are limited by the electronic system. When these limits are reached, the system no longer takes account of controls (6) and (7).

Once the required height is reached, press control button (8) for at least 5 seconds, then release it.

Then release control button (2).

The required height is stored in memory.

To check that the new level has been taken into account, press control button (3).

Recalling the default ride height

Press controls (2) and (8) simultaneously for at least 2 seconds but less than 5 seconds.

First release control button (8) then control button (2).

The default ride height is recalled.

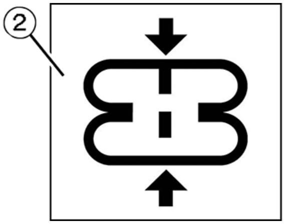
Test operation

Switch off and re-engage the master switch (10 seconds interruption).

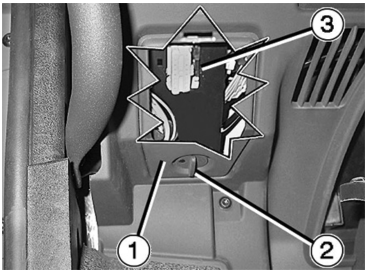
If warning pictogram (2) is displayed again with the message **"SWITCH OFF IGNITION"** and the **"SERVICE"** indicator, contact the nearest RENAULT TRUCKS garage.

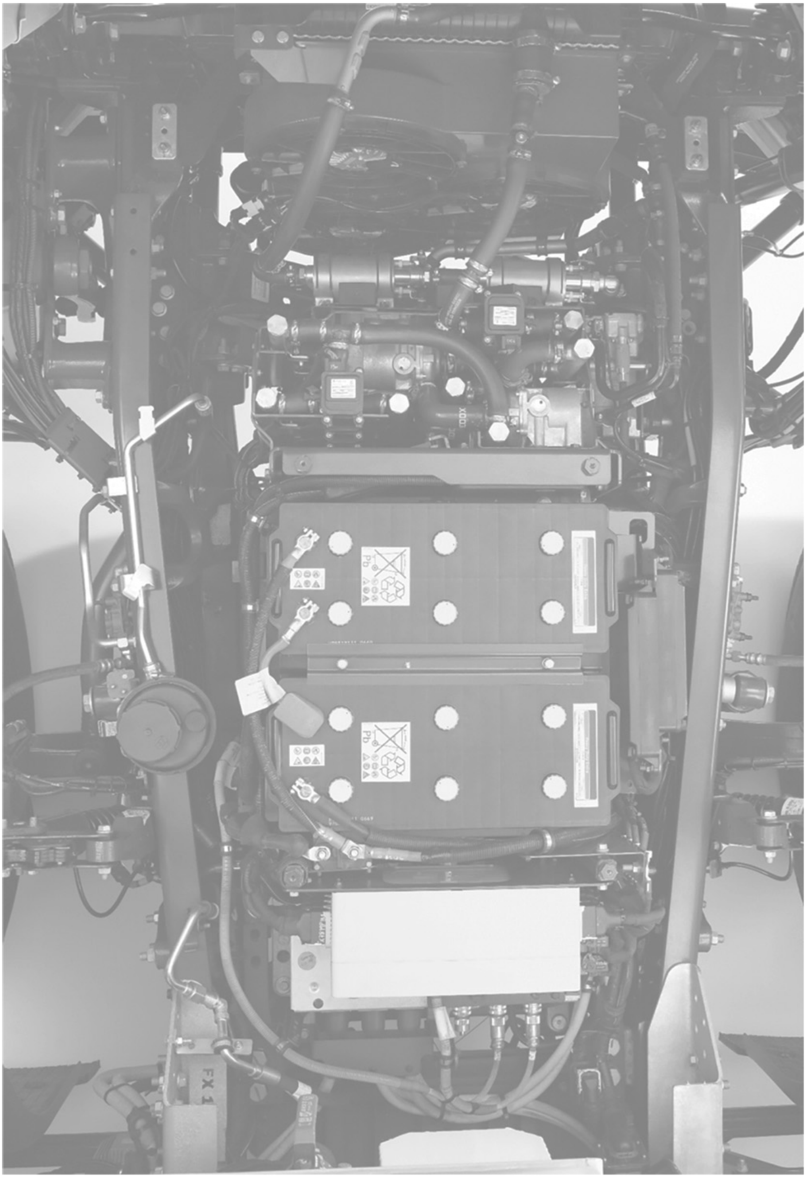
Drive at a low speed (20 km/h maximum) and take extra care, maintaining safety distances.

If warning pictogram (2) goes out, the minor fault is deleted. Nevertheless, contact your RENAULT TRUCKS garage.



Fault finding and maintenance are to be carried out using the RENAULT TRUCKS test tool plugged into diagnostic socket (3).

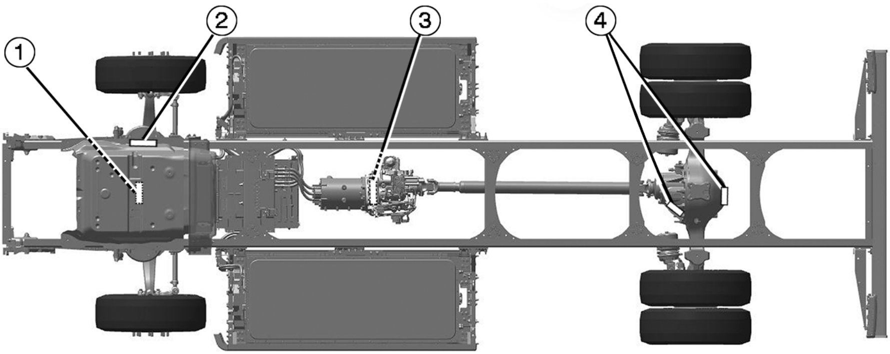




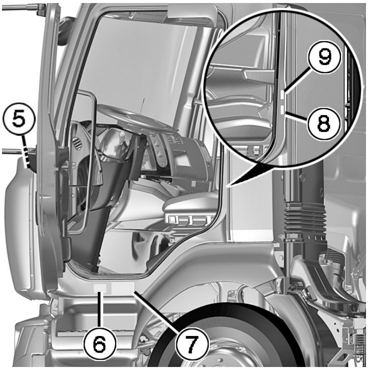
Servicing and maintenance

Vehicle identification

Identification plates are attached to the main parts of your vehicle.



- (1) - Axle
- (2) - Chassis
- (3) - Powertrain (Motor/Gearbox)
- (4) - Drive axle
- (5) - CAM reference sticker
  - Paint code
  - Manufacturing number
- (6) - Conformity plate
- (7) - Manufacturer's plate
- (8) - Tachograph sticker
- (9) - Speed limitation sticker



Day-to-day maintenance

Some simple maintenance jobs can be performed by the driver. If a lamp has failed, this may even be essential for legal and safety reasons.

Your vehicle is fitted with LED lighting. The lifespan of this type of bulb should mean you don't run the risk of them not working but if a bulb does fail, please go to your nearest Renault Trucks garage.

Bulbs

If replacing a bulb, always replace it with a bulb of the same rating and type.

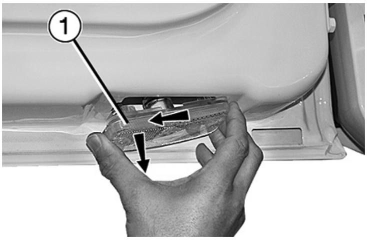
Depending on your vehicle's equipment

Table of bulbs

Assignment	Power
Front parking lights	5W
Side parking lights	3W
Front direction indicator lights	21W
Side flashing lights	21W
Halogen dipped beam headlights	70W
Daytime headlamps/Driving headlamps	20 / 60W
Fog driving lights	70W
Outline lights	5W
Foot board lighting	5W
Cab overhead lights	21W
Reading light	10W
Work lamps (tractor)	21W
Work lamps (tractor)	70W

Changing a bulb

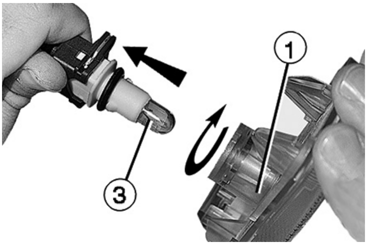
Remove light (1) from the door.



Turn bulb holder anticlockwise as far as the stop, then pull it out from light (1).

Replace bulb (3).

Clip light (1) back in.

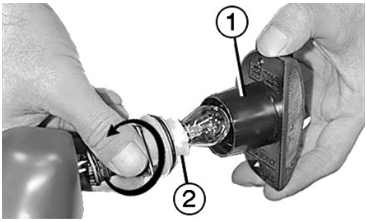


Replacing a bulb on the side indicator lights

Unscrew anchorage screws and release light (1).

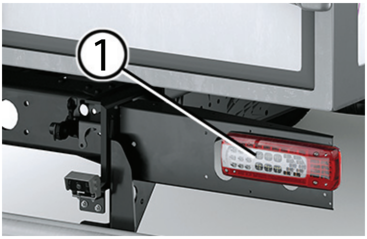
Turn connector/bulb holder assembly (2) through one quarter of a turn and extract the bulb.

Replace the bulb and refit in the reverse order of removal.



LED rear lights

In the event of a fault on rear LED lights (1), visit a RENAULT TRUCKS garage.



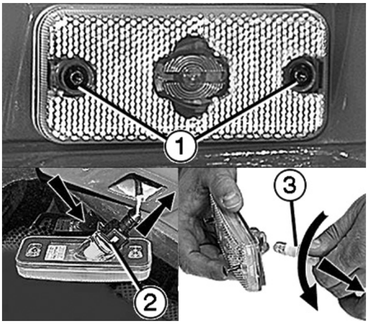
Replacing side light bulb(s)

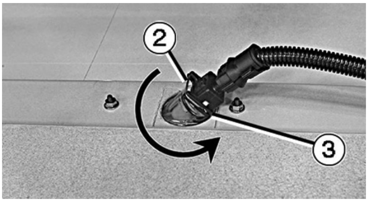
Remove anchorage screws (1) and release light.

Unclip connector (2).

Turn bulb-holder through 1/4 of a turn and remove (3).

Replace the bulb and refit in the reverse order of removal.

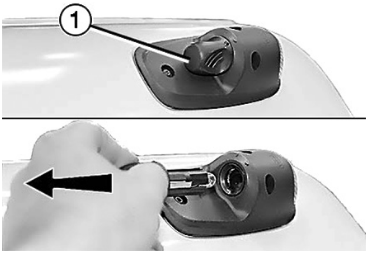




Changing bulb(s) on end-outline marker lamps on the roof

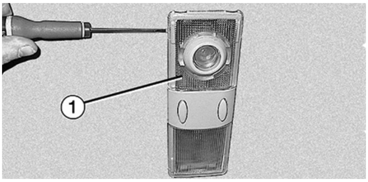
Turn bulb-holder through 1/4 of a turn and remove (1).

Replace the bulb and refit in the reverse order of removal.



Replacing a reading lamp bulb

Unclip cover glass (1) using a flat screwdriver to access the bulb.

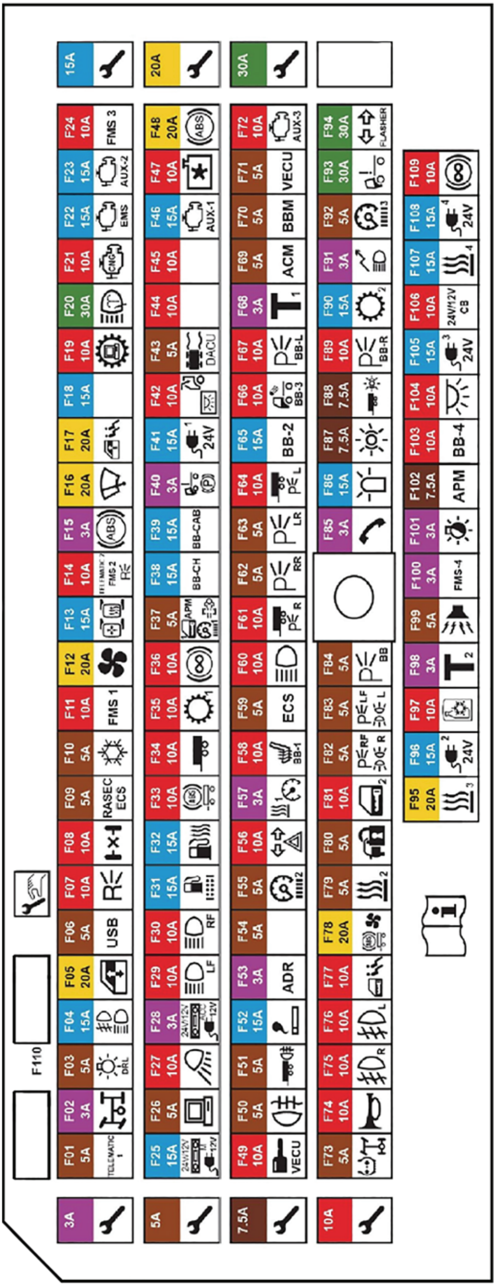


Replace the fuses using fuse grip (3).

Always replace a fuse with another fuse of the same rating.

Depending on your vehicle's equipment

Fuse panel on electrical distribution box



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Assignment	(F) Marks	Amperage
Telematics	F01	5
Power take-off	F02	3
Daytime running lights (DRL)	F03	5
Fog driving lights	F04	15
Long range headlights	F04	15
Front window lift motors	F05	20
Not used	F06	20
Reversing light(s)	F07	10
Differential lock	F08	10
Suspension ECU	F09	5
Electronic steering axle ECU	F09	5
Air conditioning	F10	5
Onboard management	F11	10
Not used	F12	20
Swivelling defrosting rear-view mirrors	F13	15
Telematics	F14	10
Onboard management		
Reversing light(s)		
Reversing buzzer		
"EBS" ECU	F15	3
Windscreen wiper motor	F16	20
Not used	F17	20
Rear window lift motor (4-door cab)		
Not used	F18	15

Assignment	(F) Marks	Amperage
Automatic gearbox diagnostic socket	F19	10
Headlamp washer pump	F20	30
Not used	F21	10
Engine management ECU	F22	15
Not used	F23	15
Onboard management	F24	10
Radio	F25	15
12V socket		
24V/12V step-down transformer in dashboard		
Diagnostic socket (OBD)	F26	5
Work light	F27	10
Radio	F28	3
Accessories		
12V socket		
24V/12V step-down transformer in dashboard		
Telematics		
Main beam headlight, LH	F29	10
Main beam headlight, RH	F30	10
Fuel primary filter heater	F31	15
Fuel heater	F32	20
Trailer "ABS/EBS" socket	F33	10
Trailer socket	F34	10
Gearbox	F35	10
Retarder	F36	10

Assignment	(F) Marks	Amperage
Transponder	F37	5
Information display		
Central air management (ancillaries, service, etc.)		
Alarm		
Central locking		
Not used		
Customer pre-arrangements on chassis	F38	15
Customer pre-arrangements on cab	F39	15
Cab tilting	F40	3
Bodybuilder information (parking brake engaged)		
24V socket on overhead ledge	F41	15
Roof hatch	F42	10
"DACU": Driving assistance control unit	F43	5
Not used	F44	10
Not used	F45	10
Not used	F46	15
Not used		
Engine fan	F47	10
"EBS" ECU	F48	20
Key switch	F49	10
Transponder		
Vehicle control unit "VECU"		
Fog light(s)	F50	5
Trailer fog light(s)	F51	5

Assignment	(F) Marks	Amperage
Cigarette lighter	F52	15
ADR supply (alternator and master switch)	F53	3
Not used	F54	5
Information display	F55	5
Flasher unit	F56	10
Hazard signal control		
Hours counter	F57	3
Independent heating		
Heated seat	F58	10
Seat belt not fastened warning		
Bodybuilder pre-arrangement (engine running)		
Suspension ECU	F59	5
Additional main beam headlights	F60	10
Trailer RH parking lights	F61	10
RH rear parking lights	F62	5
LH rear parking lights	F63	5
Trailer LH parking lights	F64	10
Customer pre-arrangements	F65	15
Bodybuilder pre-arrangements (van lighting, machine control)	F66	10
Bodybuilder pre-arrangement (LH marker lights)	F67	10
Tachograph	F68	3
Not used	F69	5
Bodybuilder unit power supply (BBM)	F70	5
Vehicle control unit "VECU"	F71	5

Assignment	(F) Marks	Amperage
Engine preheating	F72	10
Tyre pressure check	F73	5
Electronic steering axle ECU		
Warning buzzer	F74	10
Fog driving light, RH	F75	10
Fog driving light, LH	F76	10
Not used	F77	10
Rear door central locking (4-door cab)		
Trailer "ABS/EBS" socket	F78	20
Air heater (ventilation)		
Parking heater control	F79	5
Central locking	F80	5
Central door locking	F81	10
RH front parking lights	F82	5
LH front parking lights	F83	5
Bodybuilder pre-arrangement (marker lights)	F84	5
Telephone	F85	3
Rotating beacons	F86	15
Stop lights	F87	7.5
Trailer stop lights	F88	7.5
Bodybuilder pre-arrangement (RH marker lights)	F89	10
Gearbox computer	F90	15
Lights lighting control	F91	3
Information display	F92	5

Assignment	(F) Marks	Amperage
Cab tilting	F93	30
Flasher unit	F94	30
Independent heating	F95	20
24 V sockets	F96	15
24V / 12V step-down transformer		
Refrigerator	F97	10
Tachograph (ADR)	F98	3
Alarm	F99	5
Onboard management	F100	3
"Dashboard" lighting rheostat	F101	3
Air production management (APM)	F102	7.5
Cab pre-arrangements	F103	10
Cab lighting	F104	10
24V socket on overhead ledge	F105	15
24V/12V step-down transformer in overhead ledge	F106	10
CB pre-arrangement		
Parking heater	F107	15
24V socket on dashboard	F108	15
Hydraulic retarder	F109	10

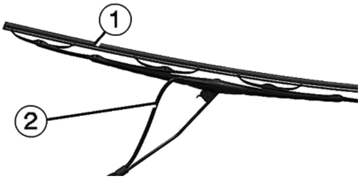
Front windscreen wiper blades

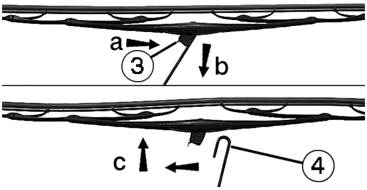
Replacing a windscreen wiper blade

Lift the windscreen wiper arm.

Remove windscreen wash pipe (2).

Tilt blade (1) until horizontal.





a - Pull on tab (2).

b - Pull blade (1).

c - Release hook (3).

To install, proceed in the reverse order to removal and ensure that tab (2) is secured.

Checking the oil levels (all major units)

Oil levels must always be checked in identical conditions (vehicle unladen or laden), on flat ground, and at least 5 minutes after the vehicle has stopped.

Vehicle road tests

After the warranty inspection, the vehicle manufacturer should make sure that the user clearly understands all the operating instructions in the handbook.

Preventive maintenance

In addition to the services provided by the RENAULT TRUCKS service points described in the maintenance programme, there are several daily operations which you must carry out.

Lubricants

RENAULT TRUCKS recommends the use of **ECO 5** lubricants (used as original equipment) to obtain saving in terms of fuel economy.

These recommendations meet the requirements of RENAULT TRUCKS to ensure the reliability expected by its customers.

These recommendations cannot be the subject of **"compromise or negotiation"**: they are linked to the technical definition of the engines.

Non-compliance with the manufacturer's recommendations in terms of oil change intervals or the use of unsuitable lubricants will considerably reduce the operational safety factor of an engine and can cause serious incidents in the long term.

If such incidents were to occur, RENAULT TRUCKS would not accept the costs of repairing these engines, even for vehicles under warranty.

Adapt the viscosity of the oil used according to the climate conditions of the region where you use your vehicle.

Using an oil of a lower grade will require more frequent oil changes. Your RENAULT TRUCKS garage is at your disposal to advise you.

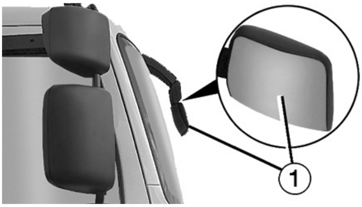
We recommend Renault Trucks Oils.

Engine oil filter cartridge(s)

For the correct operation of your engine and to extend its service life, use only genuine filters with a filtration surface and threshold designed by the manufacturer.

Roller washers

Before activating automatic washing, fold the front-view mirror onto the windscreen and fold the side rear-view mirrors so that they are not damaged.



For the side rear-view mirrors, swivel kerb view mirror (1) to fold rear-view mirror arm (2) fully.

Once washing is complete, unfold the front-view mirror and the side rear-view mirrors.

Aluminium wheel rims, care

Aluminium wheel rims are often exposed to different types of contaminants, such as road dirt, oil, asphalt, tar and brake dust. Regular maintenance is required in order to protect the wheel rims from discolouration, oxidation and unnecessary wear. A protecting wax used for additional protection, for example, when driving on salted roads, in slush or in coastal environments.

Clean the aluminium wheel rims regularly. First rinse with water, preferably use high-pressure washing. Use a brush to clean the wheel rim. For tough dirt, use a cleaning agent designed for aluminium wheel rims. Rinse with clean water afterwards.

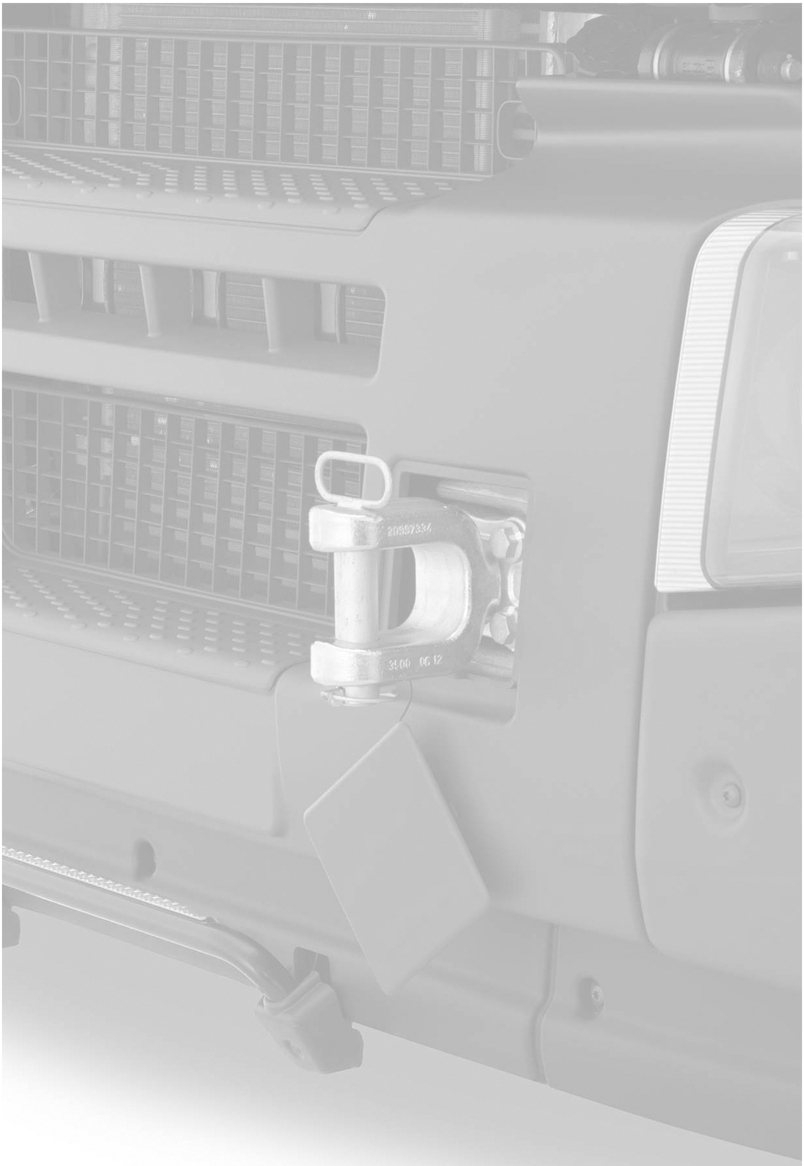
Head lamp cleaning

The head lamps are equipped with plastic glass, use a soft cloth or cotton cloth.

If this is not sufficient, use a soft (or cotton) cloth dampened with soapy water.

Rinse with a damp soft or cotton cloth then wipe gently with a dry, soft cloth.

The use of any other product is prohibited.



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CID1888305
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BLV-L7 28625-38153-8-02

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